

VIJAYA HARINI GOTETI

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EDUCATION

Polytechnic Institute of New York University
Master of Science in Mechanical Engineering 2015(Expected)

Vasavi College of Engineering (Osmania University)
B.E. (B.S.) in Mechanical Engineering 2011
Major: Mechanical Engineering with concentration on Thermal and Fluids
Minor: Industrial Engineering
Thesis: Design, Analysis and Fabrication of a Solar Powered Bicycle

AWARDS

NYU Poly Graduate Center Merit Based Scholarship for Achievements during Undergraduate Study 2013
Best presentation award for Magnetic Refrigeration 2011
Best Project Award for Design and Fabrication of Peristaltic Pump 2010

SKILLS

Design Packages: AutoCAD, Unigraphics, PRO-E
Analysis Packages: ANSYS, CNC
Others: MS Office Suite, Basic knowledge of C, C++, Java, SQL

ACADEMIC PROJECTS AND PRESENTATIONS

Stress Analysis on a Spider Web 2013
Aim of the project was to determine the deflection on a spider web due to humidity

Design Heating and Cooling Systems for a Residential House 2013
To perform heating and cooling load calculations on a residential three storied house using TRACE 700

Design, Analysis and Fabrication of Solar Powered Bicycle 2011
Aim of the project was to develop a locomotive that runs on pollution free renewable energy.

Design and Fabrication of Peristaltic Pump 2010
Designed and fabricated a positive displacement pump which runs on the phenomena of Peristalsis.

Design and Analysis of Connecting Rod 2010
Underwent Industrial In-Plant Training at the Central Institute of Tool Design, India
Designed a connecting rod implementing Pro-E and fabricated it by developing a CNC code

ACADEMIC EXPERIENCE

Courant Institute of Mathematical Sciences, New York University July-2013-August 2013
Teaching Assistant for the NYU Courant's GSTEM Program

Central Institute of Tool Design, Hyderabad, India June 2010 – July 2010
Industrial In- Plant Trainee
Trained on Pro-E, AutoCAD and CNC
Designed a connecting rod and developed a CNC code to design it in real time

ACTIVITIES AND PRESENTATIONS

Presentation on Hydrogen Fuel Cells- Acumen-09

Attempt to bring out the various new advancements and improvements in Fuel Cell technology with particular emphasis on utilization of this technology for power generation and also as a substitute for fossil fuels in running locomotives

Presentation on Magnetic Refrigeration

Magnetic refrigeration is a cooling technology based on the **magneto-caloric effect**.

Emphasized on the various industrial applications of this technique with particular stress on the fact that this method will substitute the Hydrochloroflouro carbons thereby reduce the carbon footprint on the environment

POSITIONS OF RESPONSIBILITY

- **Organizing Committee member;** Acumen-Mechanical 2009, Annual Technical Festival of Vasavi College of Engineering
- **Coordinator;** Acumen Mechanical 2010. Came up with the idea for the **Central Theme-“Green Acumen”** and held an event titled **“Brain Green”**, which emphasized on how Mechanical Engineering can be applied to address the current environmental issues.
- **Event Manager,** Acumen Mechanical 2011, Annual Technical Festival of Vasavi College of Engineering.
- Represented my department in **Shaastra’09** the annual technical fest of **Indian Institute of Technology, Madras**
- Represented my Department/College at the Annual Summit of **Confederation of Indian Industries** on New Product Development.

EXPERIENCE

Cognizant Technology Solutions India**2011-2012****Programmer Analyst**

Lead Documentation Engineer for Imprint Text Utility and Pfizer.

Responsible for holding client meetings and preparing relevant documentation for the Project.

Bhumi**2009-2010****Mentor/Tutor**

Tutoring and mentoring underprivileged students who couldn't afford for a tutor and lacked proper quality educational facilities at their school.

Helping to motivate and improve the confidence of the students.

LANGUAGES

English- fluent and professional fluency

Hindi- fluent and read and write- High proficiency

Telugu- native, High proficiency

French- elementary proficiency

MEMBERSHIPS

ASME- Student Member

IEEE- Student Member

SAE-Student Member since 2009

EWB- Student Member